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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/014,516	12/14/2001	Tomohiro Nakata	Q67231	3587
7590 03/08/2006 SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC			EXAMINER	
			KIM, SANG K	
2100 Pennsylva	ania Avenue, N.W.			
Washington, DC 20037-3213			ART UNIT	PAPER NUMBER
•			3654	

DATE MAILED: 03/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
	10/014,516	NAKATA ET AL.		
Office Action Summary	Examiner	Art Unit		
	SANG KIM	3654		
The MAILING DATE of this communication appeared for Reply	opears on the cover sheet with th	e correspondence address		
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATI 1.136(a). In no event, however, may a reply be d will apply and will expire SIX (6) MONTHS fr tte, cause the application to become ABANDO	ON. It timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).		
Status				
1)⊠ Responsive to communication(s) filed on 10. 2a)⊠ This action is FINAL . 2b)□ Th 3)□ Since this application is in condition for allow closed in accordance with the practice under	is action is non-final. ance except for formal matters, [prosecution as to the merits is		
Disposition of Claims	•			
4) Claim(s) 1-6,9-12 and 18-21 is/are pending in 4a) Of the above claim(s) is/are withdrest 5) Claim(s) is/are allowed. 6) Claim(s) 1-6 and 9-12 is/are rejected. 7) Claim(s) 18-21 is/are objected to. 8) Claim(s) are subject to restriction and/or compared to the specification is objected to by the Examination of the specification of the specification to the specif	awn from consideration. /or election requirement. ner. ccepted or b) □ objected to by th			
Replacement drawing sheet(s) including the corre	ection is required if the drawing(s) is	objected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 6/29/05, 12/22/05.	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:			

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6 and 9-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamauchi et al., U.S. Patent No. 4880175, in view of Kataoka, U.S. Patent No. 4238084.

With respect to claims 1-2 and 4-5, Yamauchi '175 teaches a method of winding a yarn using the apparatus as shown in figures 1-19, winding the yarn around a bobbin (i.e., a core or winding tube) at a low tension (t1), then progressively increasing the tension of the yarn at a gradual predetermined rate until reaching a high tension (t3), and thereafter winding the yarn under a tension which is being reduced from the high tension, as shown in figure 16.

Yamauchi '175 shows an automatic winder with the tension device to control the winding speed of a yarn and the like, see abstract.

Kataoka '084 shows a method of winding a sheet (i.e., a web).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus of Yamauchi '175 to wind a web as taught by Kataoka '084 to wind other different materials onto the device, thus not limiting the device to wind only one particular material such as yarn, as explained above.

With respect to claims 3 and 6, Yamauchi '175 teaches wherein winding tension is changed as the yarn layers increase which is caused by the amount of yarn.

As stated above, Yamauchi '175 in view of Kataoka '084 does not give a set of value with respect to the tension and the length of the yarn/web.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to select the tension to correspond to the length as specified in the claims to ensure any material wound onto the core would not break under the high tension. Furthermore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to set the low tension up to 15% of the length to which the web is to be wound, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

With respect to claims 9 and 11, Yamauchi '175 teaches winding tension storing means (using a CPU 235), torque converting means (using an actuator 10), core rotation control means (using a control device 116), and winding a yarn using the apparatus as shown in figures 1-19, winding the yarn around a bobbin (i.e., a core or winding tube) at a low tension (t1), then progressively increasing the tension of the yarn at a gradual predetermined rate until reaching a high tension (t3), and thereafter winding the yarn under a tension which is being reduced from the high tension, as shown in figure 16, and as explained in column 4, lines 37-45, column 5, lines 34-46, and column 9, lines 25-30.

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Yamauchi '175 shows an automatic winder with the tension device to control the winding speed of a yarn and the like, see abstract.

Kataoka '084 shows a method of winding a sheet (i.e., a web).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus of Yamauchi '175 to wind a web as taught by Kataoka '084 to wind other different materials onto the device, thus not limiting the device to wind only one particular material such as yarn, as explained above.

With respect to claims 10 and 12, as advanced above, Yamauchi '175 teaches a plurality of winding units (i.e., a plurality of webs and cores), see figure 1.

Allowable Subject Matter

Claims 18-21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Claims 7-8 and 13-17 have been canceled.

Claims 18-21 have been added.

Applicant's arguments filed on 8/10/05 have been fully considered but they are not persuasive with respect to claims 1-6 and 9-12.

Applicant argues that the device of Yamauchi is used for winding a "yarn" as opposed to "sheet," and the sheets would not necessarily have the same tension

characteristics as the yarn. Therefore, applicant believes the sheets of Kataoka would not be wound around the 102 bobbin and removed along the same manner as the yarn of Yamauchi, and there is no teaching or suggestion that would have led one to believe that such tension aspects would be found when unwinding a "sheet" from a roll.

The examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art.

In this case, Yamauchi '175 provides some teaching, suggestion or motivation that other materials can be used since Yamauchi '175 recognizes the device can control the tension of a "yarn and the like." Thus, the device of Yamauchi can accommodate different materials. Kataoka '084 shows a method of winding a sheet. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus of Yamauchi '175 to wind a web as taught by Kataoka '084 to wind other different materials onto the device, thus not limiting the device to wind only one particular material such as yarn.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SANG KIM whose telephone number is 571-272-6947. The examiner can normally be reached Monday through Friday from 8:00 A.M. to 5:30 P.M. alternating Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kathy Matecki, can be reached on (571) 272-6951. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SK

3/3/06

KATHY MATECKI
SUPERVISORY PATEUT EXAMINER
TECHNOLOGY CENTER 3600